# PremierWave® XC HSPA+

*Intelligent Gateway*



## HIGH SPEED 3.5G HSPA+ INTELLIGENT GATEWAY AND APPLICATION SERVER

PremierWave XC HSPA+ is an industrial-grade 3.5G wireless solution offering Penta-band HSPA+ performance, network redundancy and enterprise-level security for mission critical applications, time sensitive event tracking and M2M connectivity.

### Flexible & Robust

PremierWave® XC HSPA+ is a flexible and robust intelligent gateway and application server in a compact industrial-grade IP30 rated housing. It is ideal for deployment in remote locations either as a primary wireless connectivity to host multiple devices or as a backup when Ethernet connectivity fails. As with any Lantronix product, PremierWave XC HSPA+ is designed with ease of use in mind without compromising security.

### Safe & Secure Remote Access

PremierWave XC HSPA+ features the industry-proven Lantronix device server application suite and enterprise-level security (SSL, SSH, AES) allowing safe and secure remote access and management from practically anywhere.

### Customizable & Versatile M2M Solution

With three primary connectivity modes (Ethernet-to-Cellular Routing, Serial-to-Cellular Tunneling and Serial-to-Ethernet Tunneling), customizable event tracking/notification and multiple configuration modes (Web browser, CLI and XML), PremierWave XC HSPA+ is an extremely versatile, secure and easy to manage M2M wireless solution.

### PremierWave XC HSPA+ Highlights

- Penta-band UMTS/HSPA+ (global coverage)
- Quad-band GSM/GPRS/EDGE
- Ethernet-to-Cellular Failover/Failback
- Ethernet-to-Cellular Routing
- Serial-to-Cellular Tunneling
- Serial-to-Ethernet Tunneling
- SMS - Shoulder Tap, Relay Control, Event Notification, SMS Tunneling*
- Lantronix Device Server Application Suite
- 1 10/100 Port, 2 Serial Ports, 2 Digital Inputs, 1 Relay Output, 1 USB Port
- Industrial Grade Design
- 5-Year Limited Warranty

# LANTRONIX

# Features and Specifications

## Network

### Cellular
- UMTS/HSPA+ (850/800/900/1900/2100 MHz)
- GSM/GPRS/EDGE (850/900/1800/1900 MHz)
- Transfer Rates - up to 14.4 Mbps (downlink), up to 7.2Mbps (uplink)
- SMS Inbound - Shoulder Tap, Relay Control, Tunneling
- SMS Outbound - Event Notification, Tunneling
- 1 Secure SIM Slot
- 2 x Omni-Directional Penta-band Antennas

### Ethernet
- 10BaseT and 100Base-TX Link (auto sensing – MDIX, full and half duplex support)
- RJ-45 Connector with LEDs (operation and link)
- 1.5 KV Isolation

## Serial Interface
- Software selectable RS-232/422/485
- Software selectable RS-485 termination
- Serial data rates from 300 to 921 Kbps
- Characters: 7 or 8 data bits
- Parity: Odd, Even, None
- Stop Bits: 1 or 2
- Modem Control: DTR, DSR/DCD
- Flow Control: XON/XOFF (SW), CTS/RTS (HW)

## Serial Connector
- 2 x DB9M (DTE) with 15KV ESD protection per port

## USB Interface
- USB Mass Storage Device Support

## USB Connector
- 1 x USB Type A Host Connector (USB 2.0)

## I/O Interface
### Input
- Connection: Sensors/Events
- Voltage acceptance: 0 to 30 VDC
- Digital input event: User configurable
- Optical: 1.5 KV
### Output
- Software: Turn Relay Output ON and OFF
- Automatic Event Trigger: ON or OFF (possible events include loss of cellular link, loss of Ethernet link, digital input event)
- Relay Output Response: User configurable
- Support 1A @24V

## I/O Connectors
- 2 x Digital Input, 1 x Relay Output (Terminal Block)

## LED Indicators
- Cellular Mode, Signal Strength, Serial RX/TX, USB Connection, System Status, Power, Ethernet Speed, Ethernet Activity

## Routing/Gateway
- NAT, Port Forwarding, SPI Firewall
- WAN Failover/Failback
- Multiple Ethernet LAN Hosts
- Multihoming

## Protocol Support
- Network Services: SMTP Client, RSS, Telnet Server/Client, SNTP, FTP Server/Client, SFTP Server/Client, TFTP Server, Syslog
- Network Management: SNMP v1/v2c/v3*
- Network Security: HTTPS Server/Client, SSH Server/Client, SSL
- Server/Client, TLS, IPSec*
- Network Protocols: ARP, HTTP, UDP/IP, TCP/IP, ICMP, BOOTP, DHCP, Auto IP, DNS
- Discovery Protocols: UPnP
- Industrial Protocols*: Modbus TCP, Modbus RTU, Modbus ASCII

## Event Triggers and Actions
- Events: Cellular Link State Change, Ethernet Link State Change, Digital Input State Change
- Actions: SMS, Email, HTTP Post, FTP Put, Relay Output, SNMP Trap

## Security
- SSL v3, SSH v2, Client & Server, Supports up to 2048-bit certificates
- Encryption: AES, 3DES, RC4
- Authentication: SHA-1, MDS, Base-64 User Access Lists

## Management
- Web Browser (SSL option for secure login)
- CLI (over Serial Ports, Telnet or SSH)
- XML Configuration Records via CLI or FTP
- Supports SNMP

## Software
- Lantronix Device Server Application Suite
- DeviceInstaller™

## Power
- Input Voltage: 9-30 VDC
- Power Consumption: 3.6 Watts (typical)
- Power Supply (100 - 240 VAC, 50-60 Hz, 12 VDC @ 1.8A) with locking barrel connector and regional adapters, -40° to +75°C

## Environmental
- Operating Temperature**: -40° to +70° C
- Storage Temperature: -40° to +85° C
- Relative Humidity: 5% to 95% non-condensing
- IP Rating: 30

## Agency Approvals / Compliance
- EMC - FCC Part 15 Class B, IC, CE, EN55022, EN55024 Class B
- RF - FCC Part 22H, Part 24E, RSS 132,133, EN301-489-1, EN301 489-7, EN301 489-24, EN301 511, AS/ACIF 2042.1, 2042.3
- Safety - UL 60950-1, cUL 60950-1, IEC 60950-1, CSA C22.2 No. 60950-1-07, AS/NZS 60950:2000
- Network - PTCRB, R&TTE
- Carrier Approval: AT&T
- RoHS, REACH

## Dimensions
- Size: (L x W x H): 109mm x 109mm x 30mm (4.3in x 4.3in x 1.2in)
- Weight: 0.24 kg (0.55 lb)

## Warranty
- 5-Year Limited

| Part Number | Description |
|---|---|
| PXC2102H2-01-S | PremierWave XC HSPA+ Intelligent Gateway and Application Server, 2 Serial Ports, 2 Digital Inputs, Relay Output, USB, 10/100Base-T, 2 Antennas, Industrial Temperature, Universal Power Supply with Regional Adapters, RoHS |

*Available in future F/W release
**UL rated to 60° C

## Ordering Information

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